

COVID-19

- HCU: 30 CT images

Cancer

- MSD - Task 06 Lung: 30 (CT images: <http://medicaldecathlon.com>)

Linux installer for Ubuntu <= 20.04:

Unset

```
sudo apt-get install itksnap
```

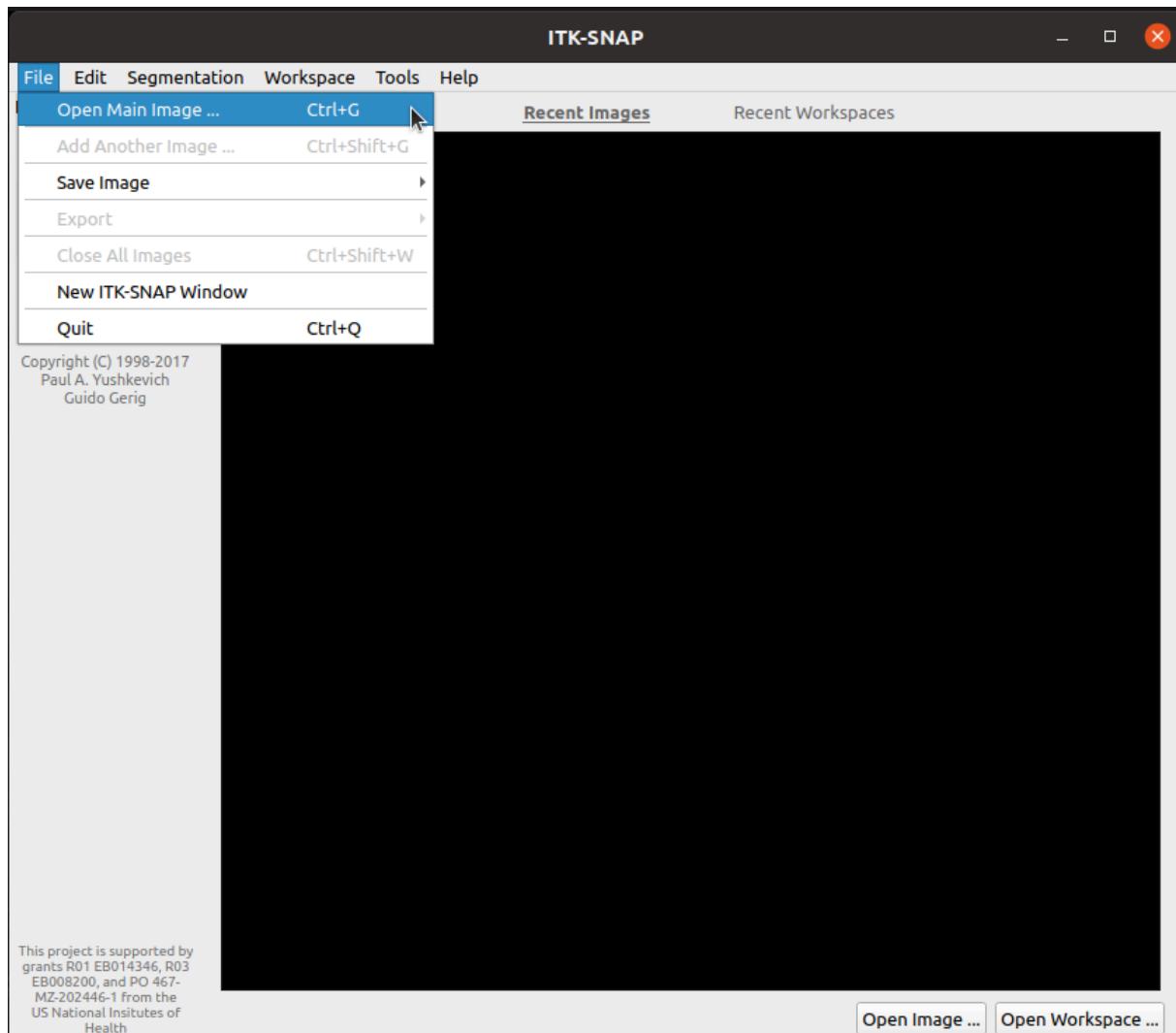
- Download ITK-Snap from the official website: www.itksnap.org
- Available for Windows, macOS, and Linux.

ITK-Snap is one of the most widely used tools for medical image processing. It allows users to open and visualize important details, such as slice spacing and image intensities, as well as to perform annotations related to pulmonary structures and 3D rendering of these annotations.

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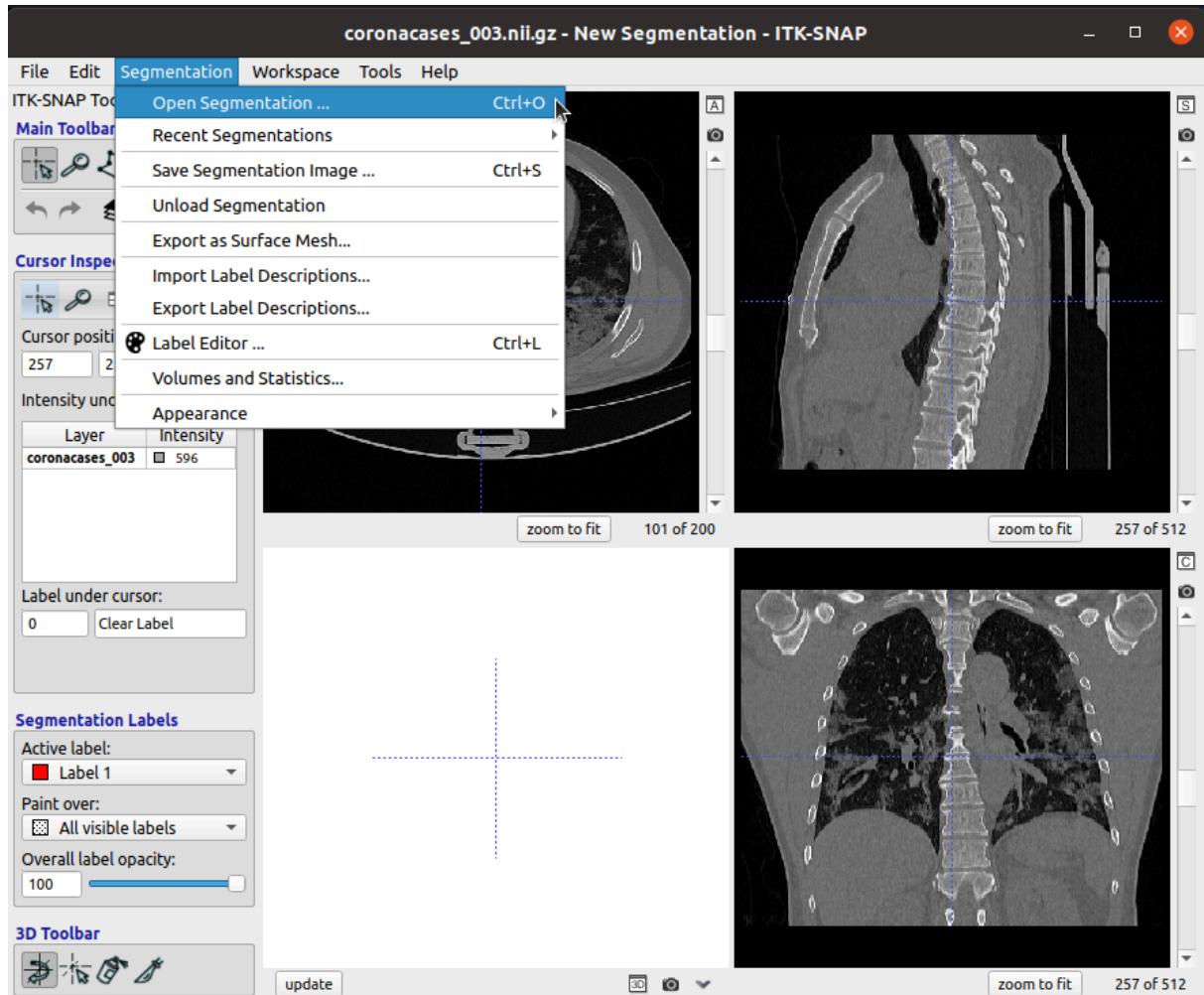
Open CT image

- Ctrl + G



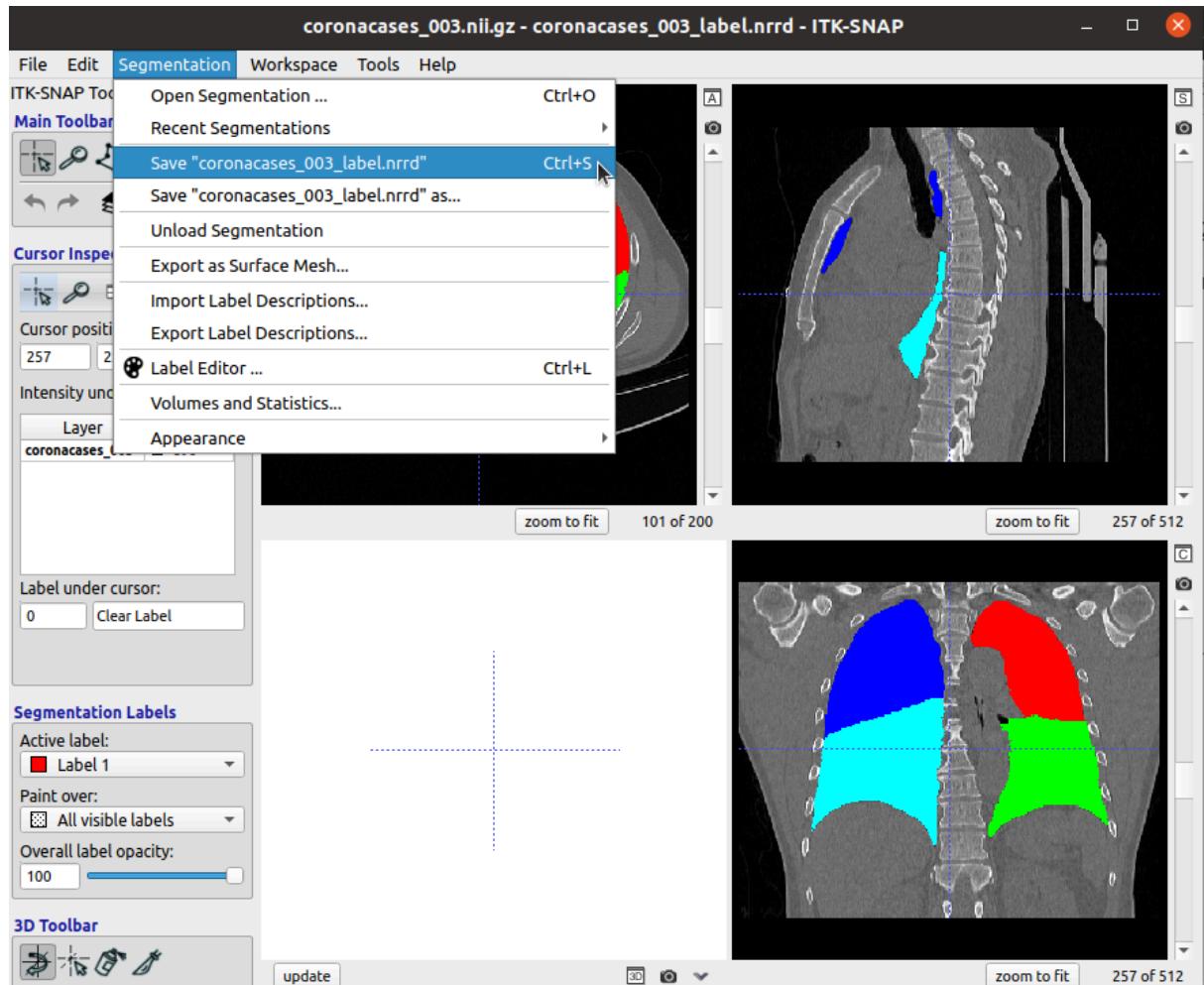
Open image for segmentation

- Ctrl + O



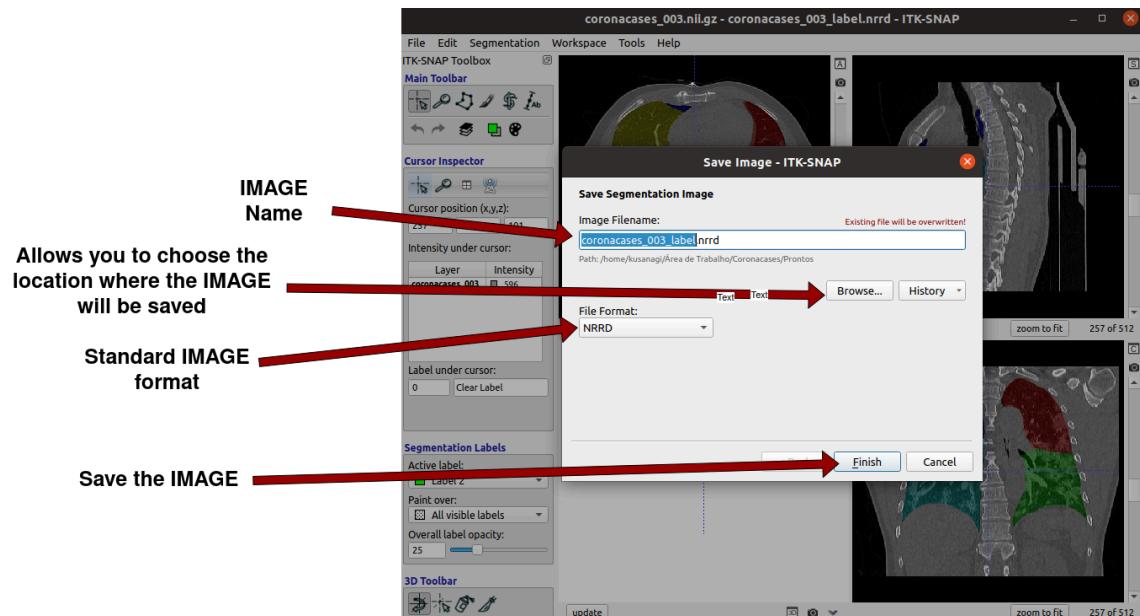
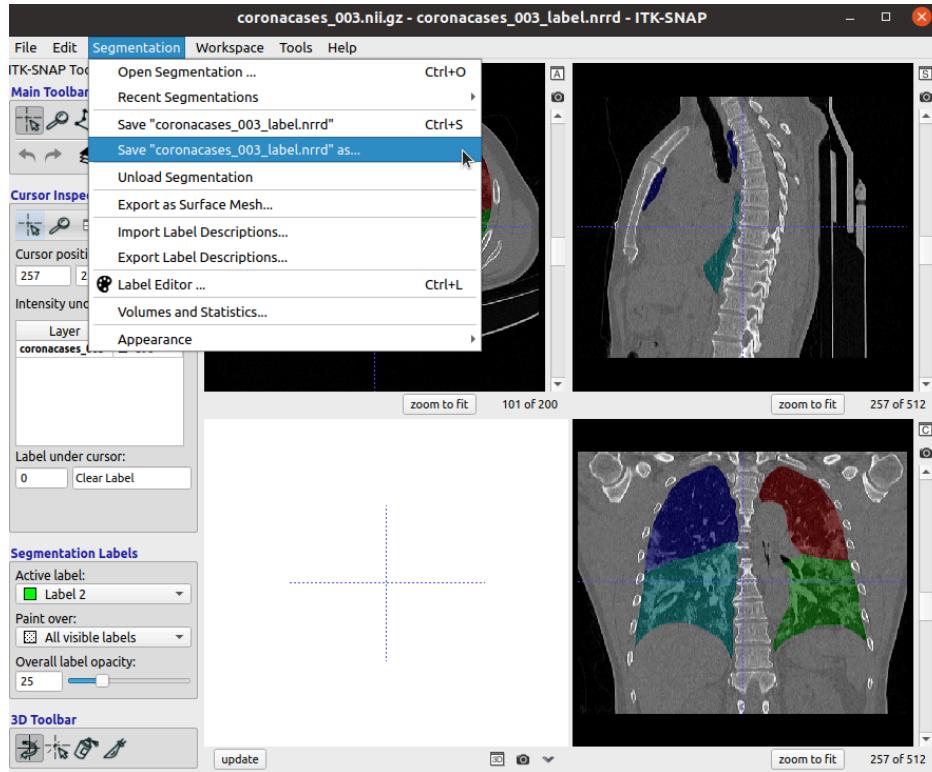
Save image

- **Menu > Segmentation > Save**
- **The image will be saved in place of the original image**



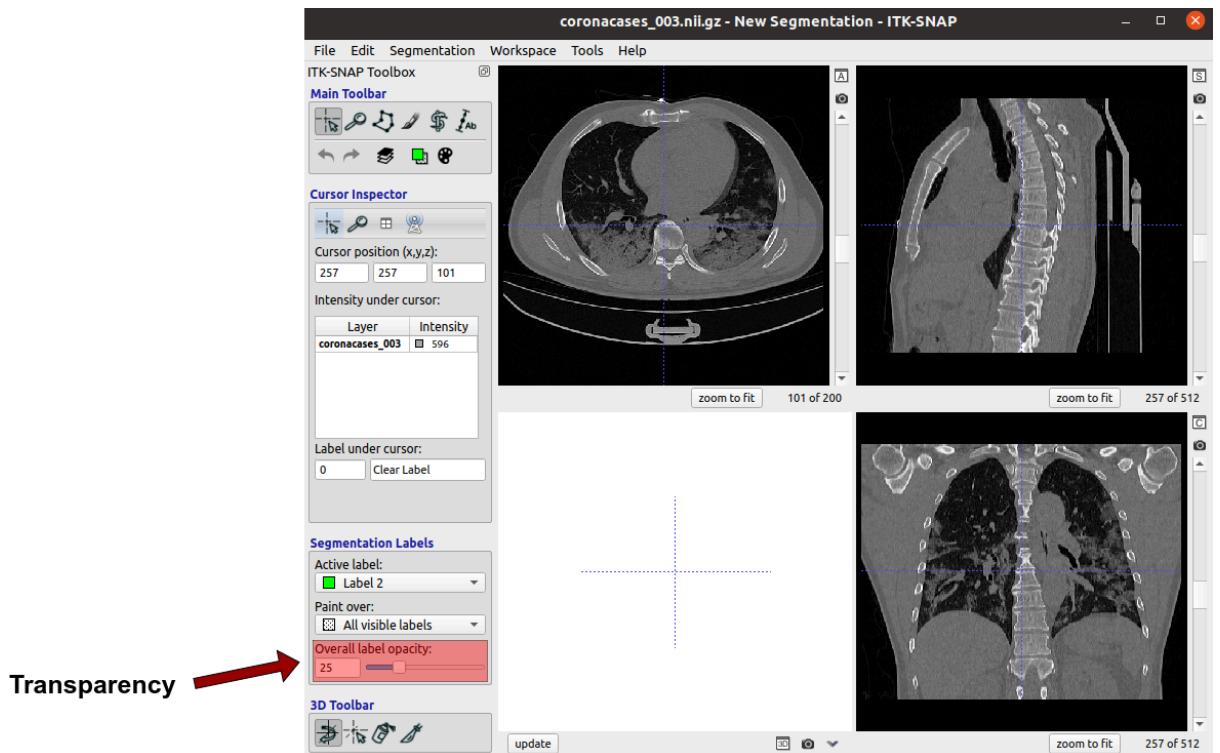
Save image with different name

- Menu > Segmentation > Save as (standard format .nrrd)
- Save image with different name
- Allows you to change the image name



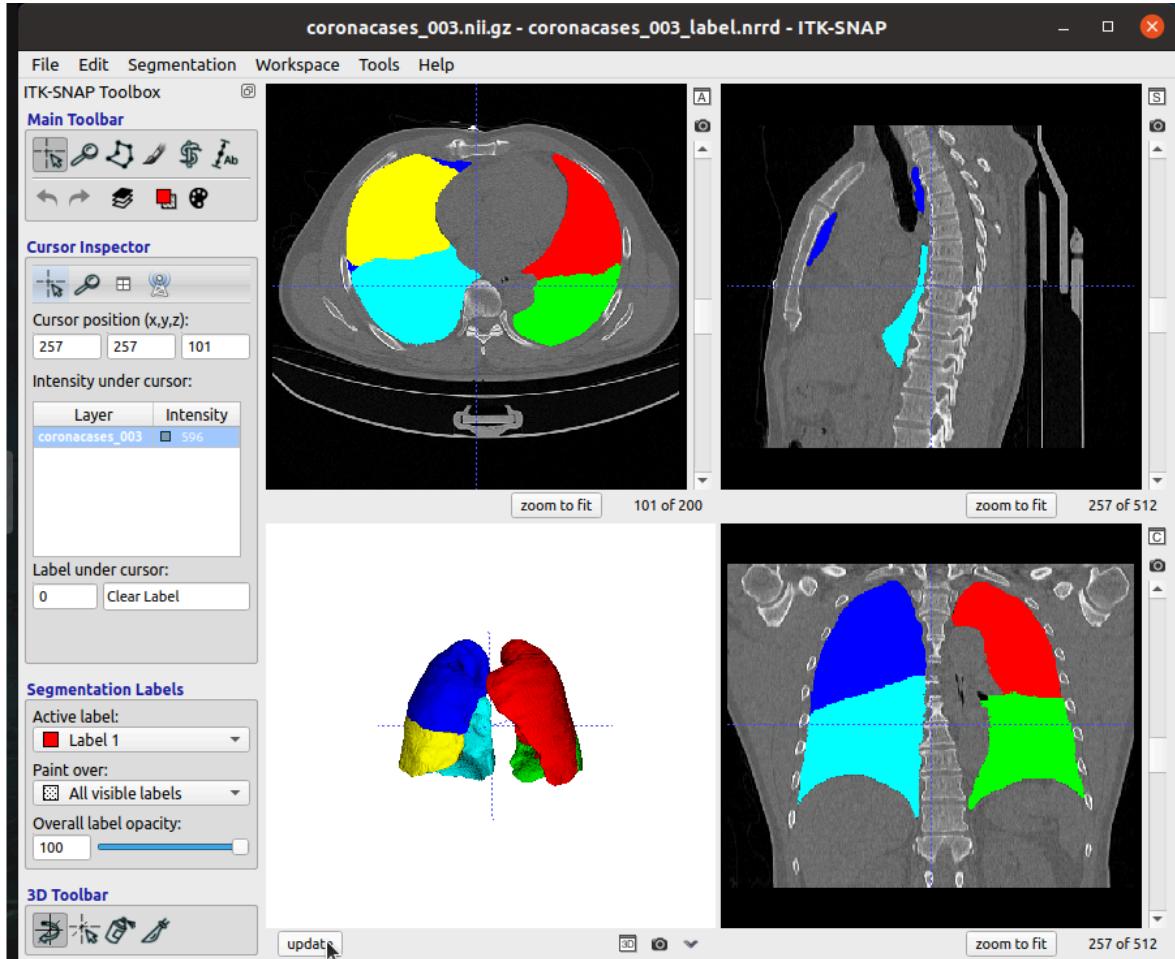
Transparency

- Overall label opacity slider button
- Overall label opacity slider



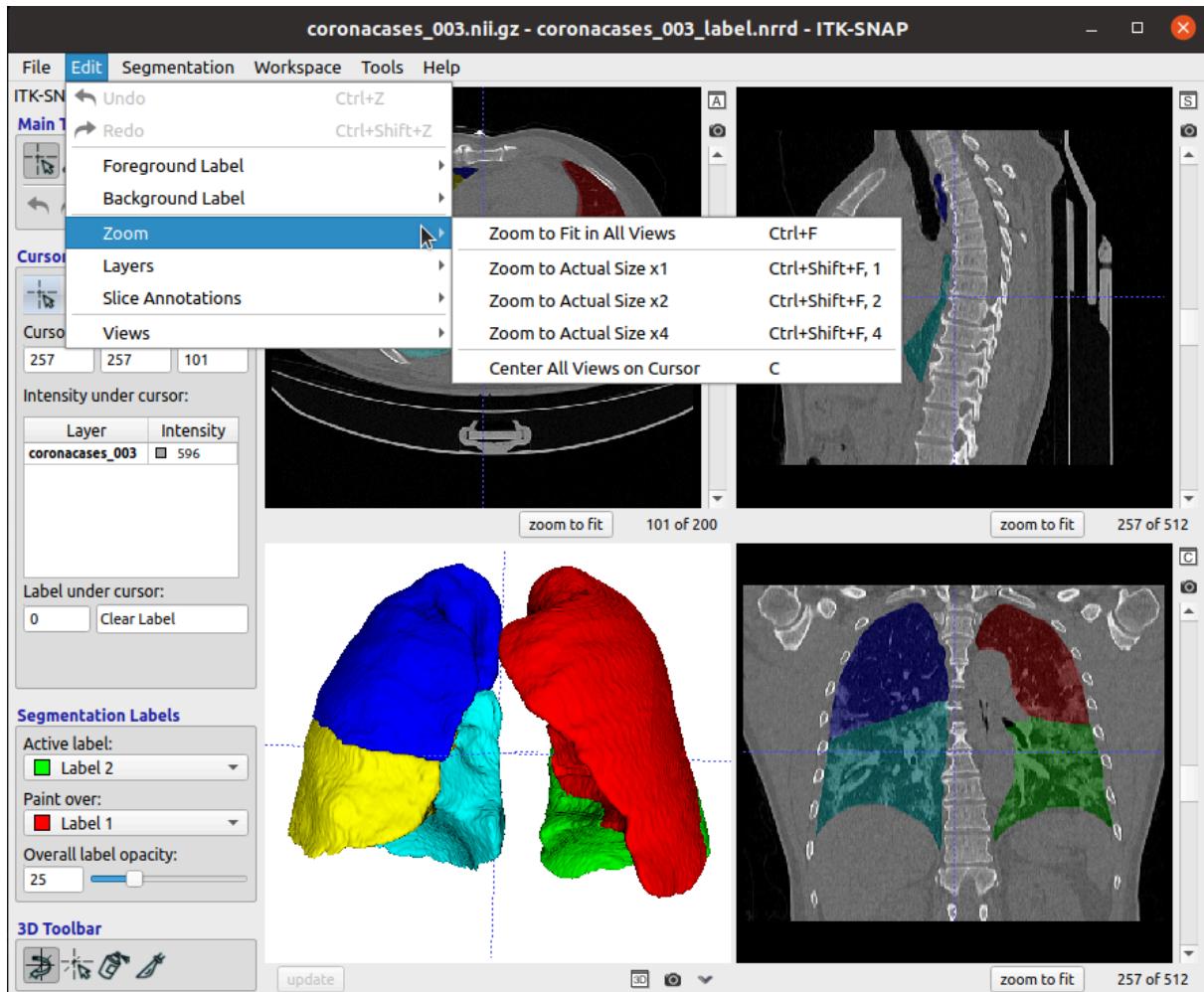
3D rendering of the annotated image

- Update button



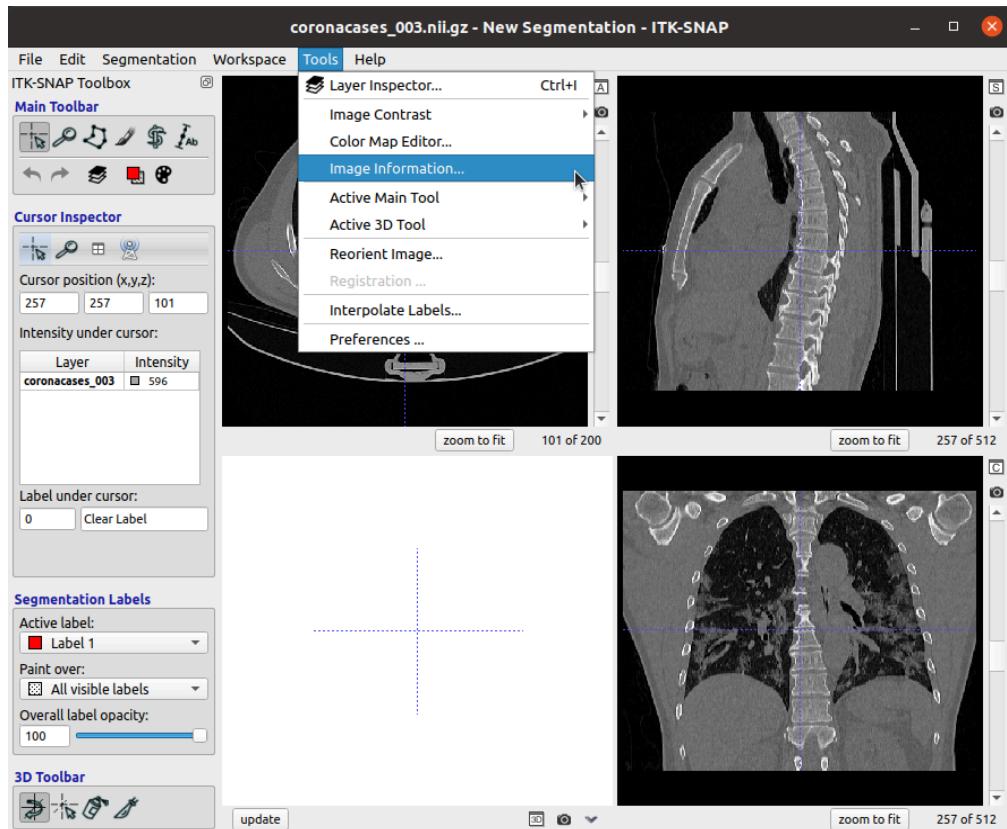
Zoom

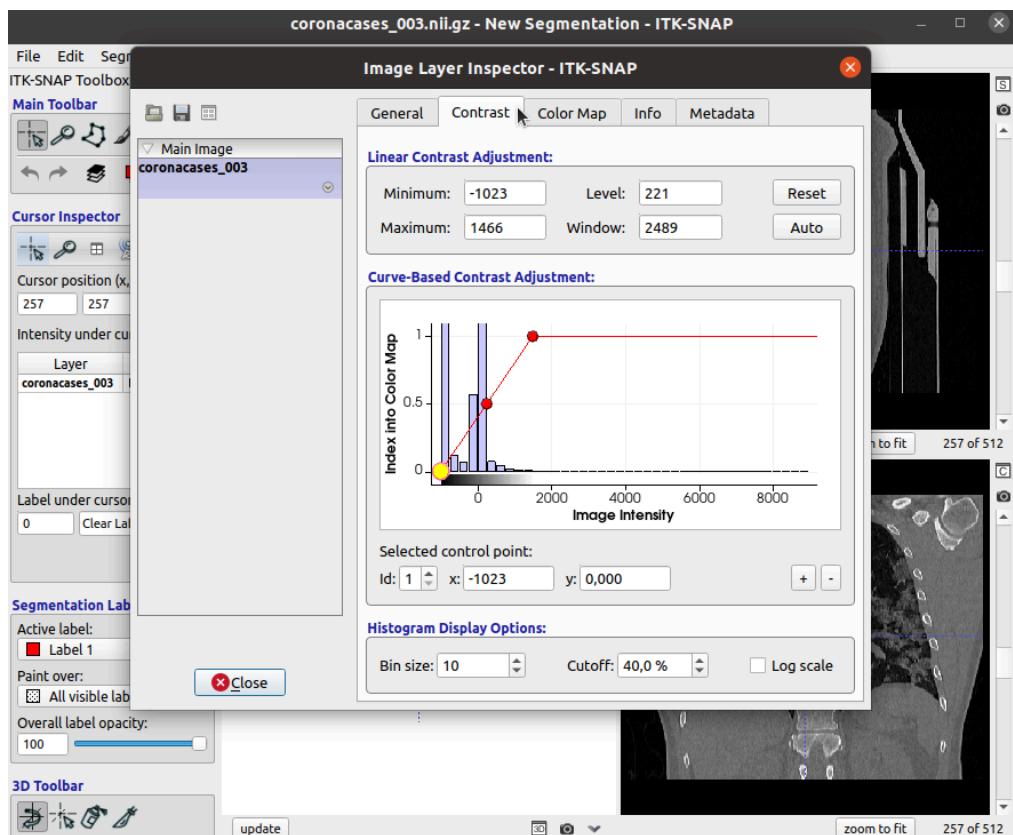
- Menu > Edit > Zoom
- Mouse Wheel



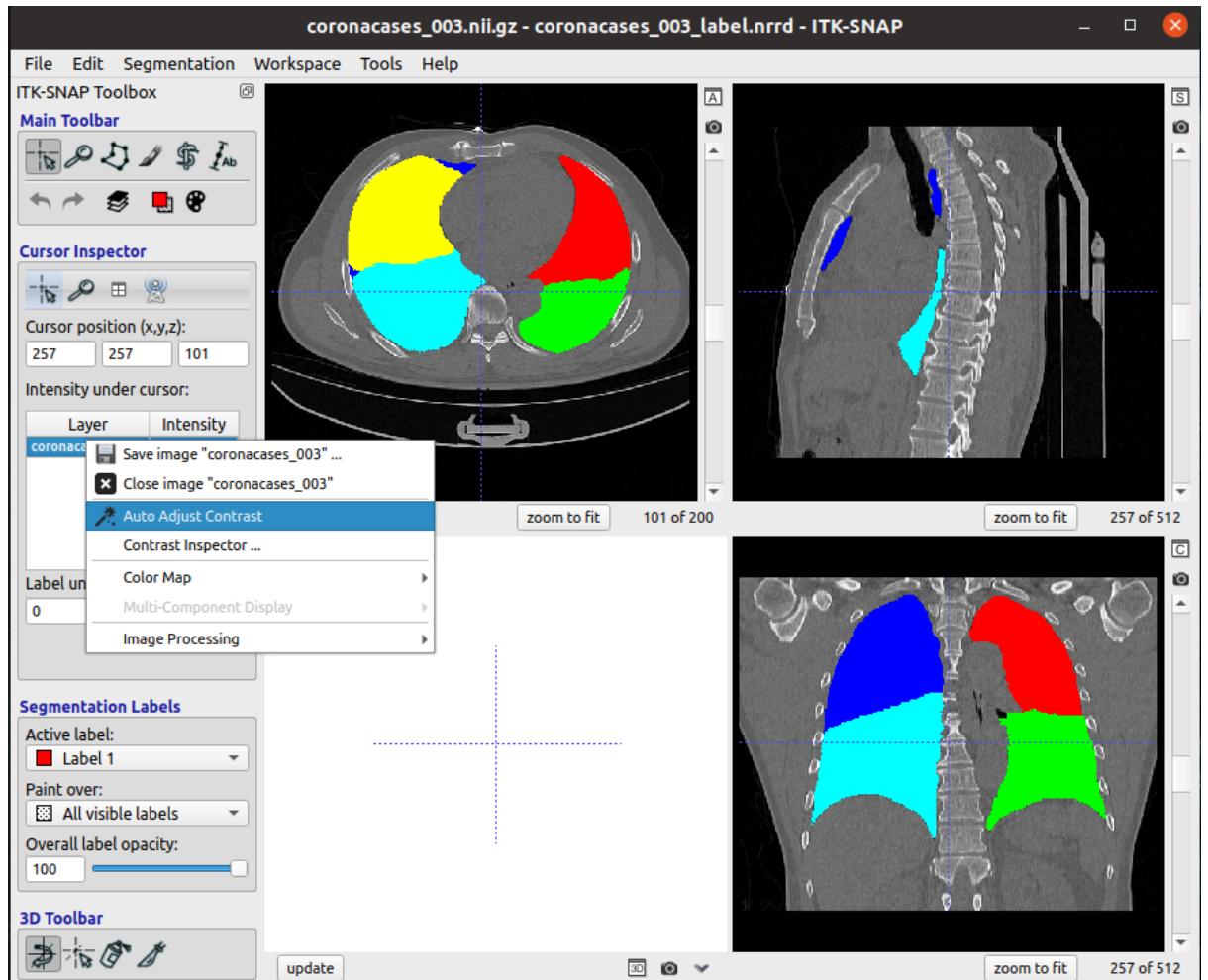
Contrast

- Menu > Tools > Image Information >> **Contrast Tab**
- Adjust min/max and level/window



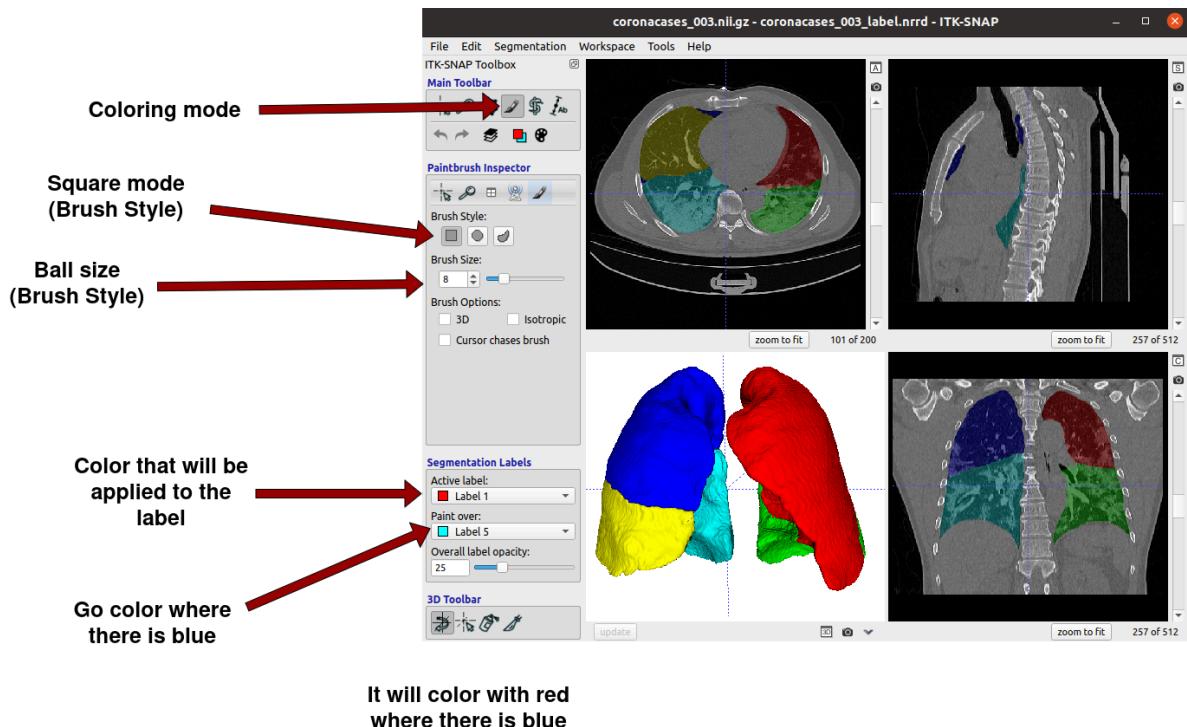


Automatically change contrast

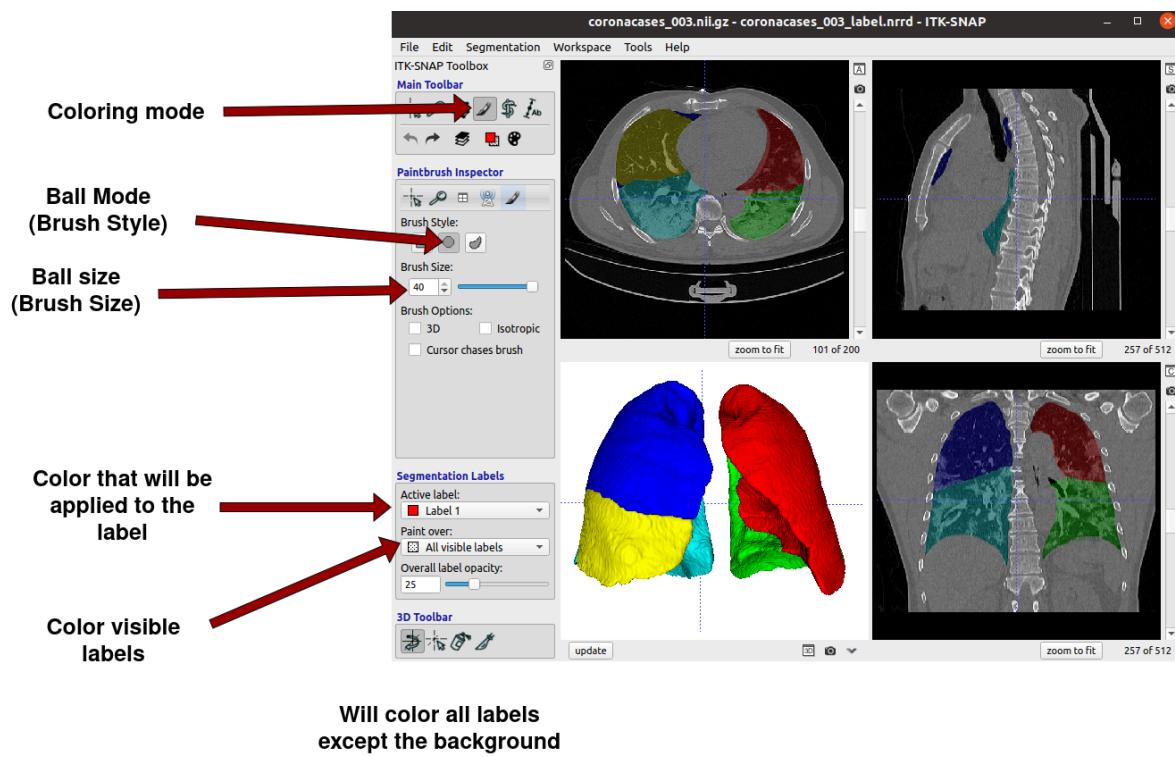


Color label

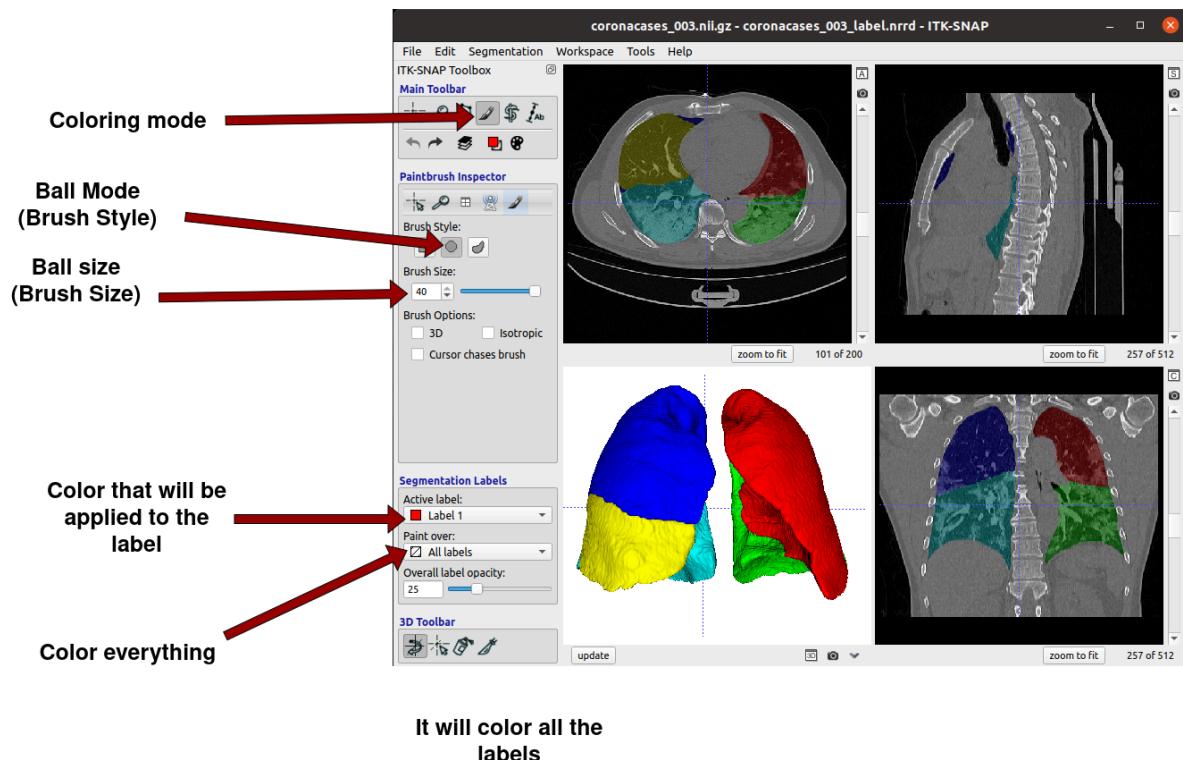
Color specific label



Color everything visible

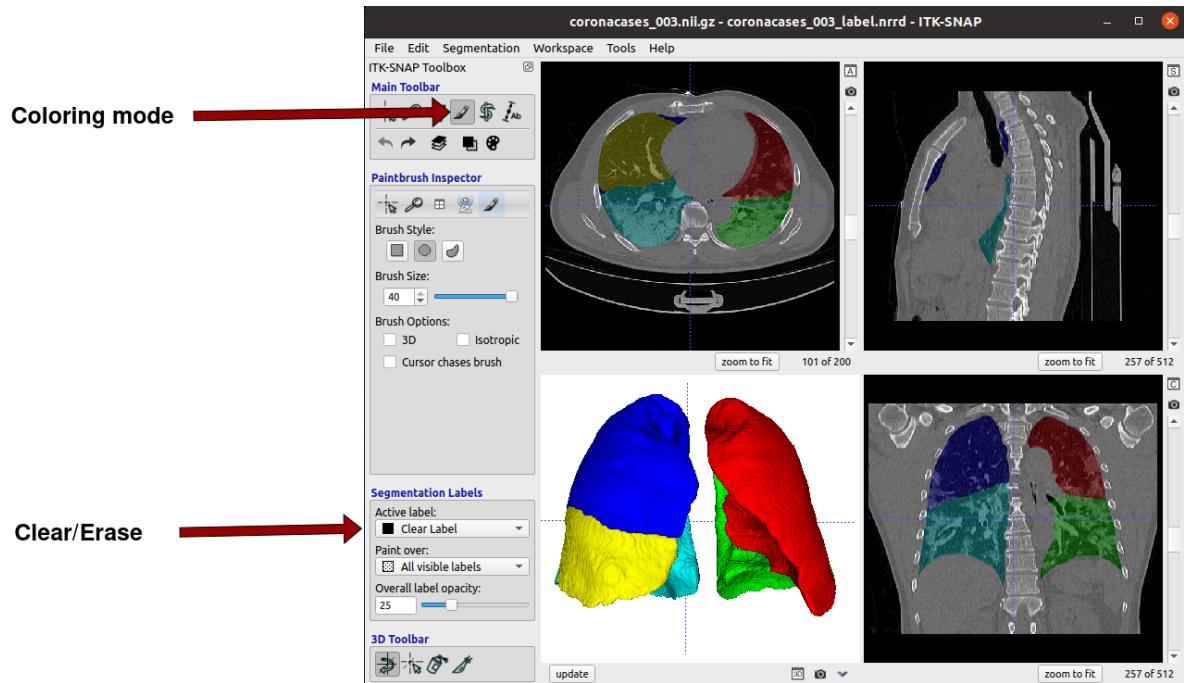


Color everything



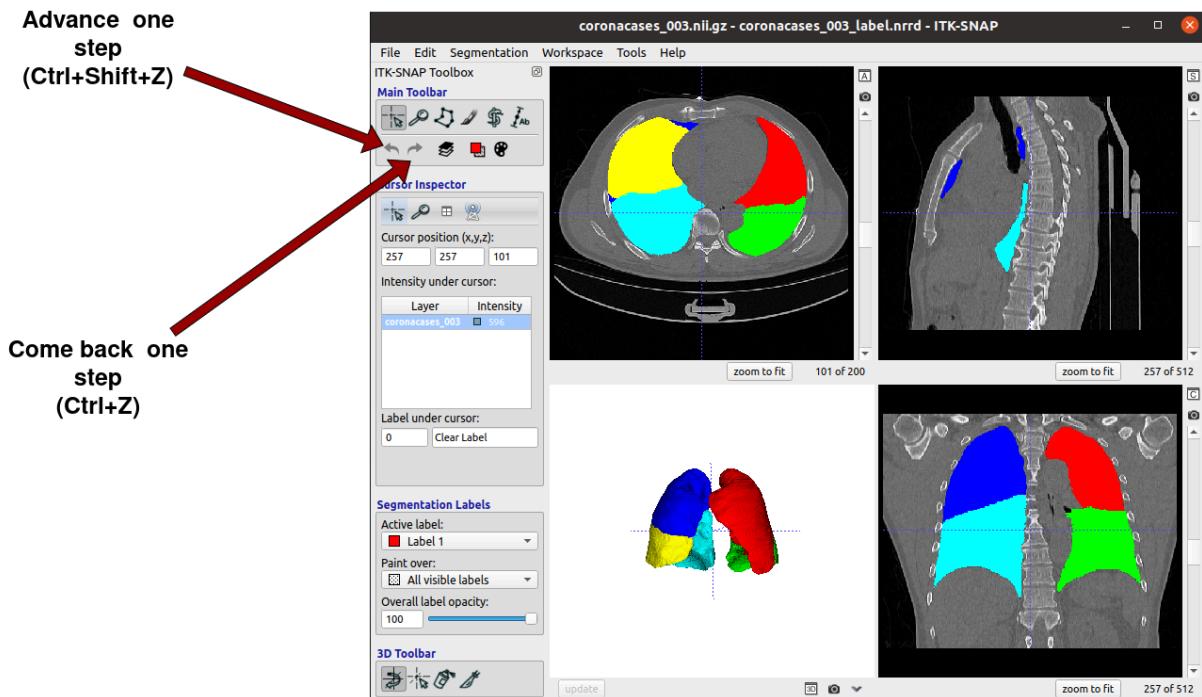
Erase

- Right mouse button: if any label is selected, it will delete only that label.

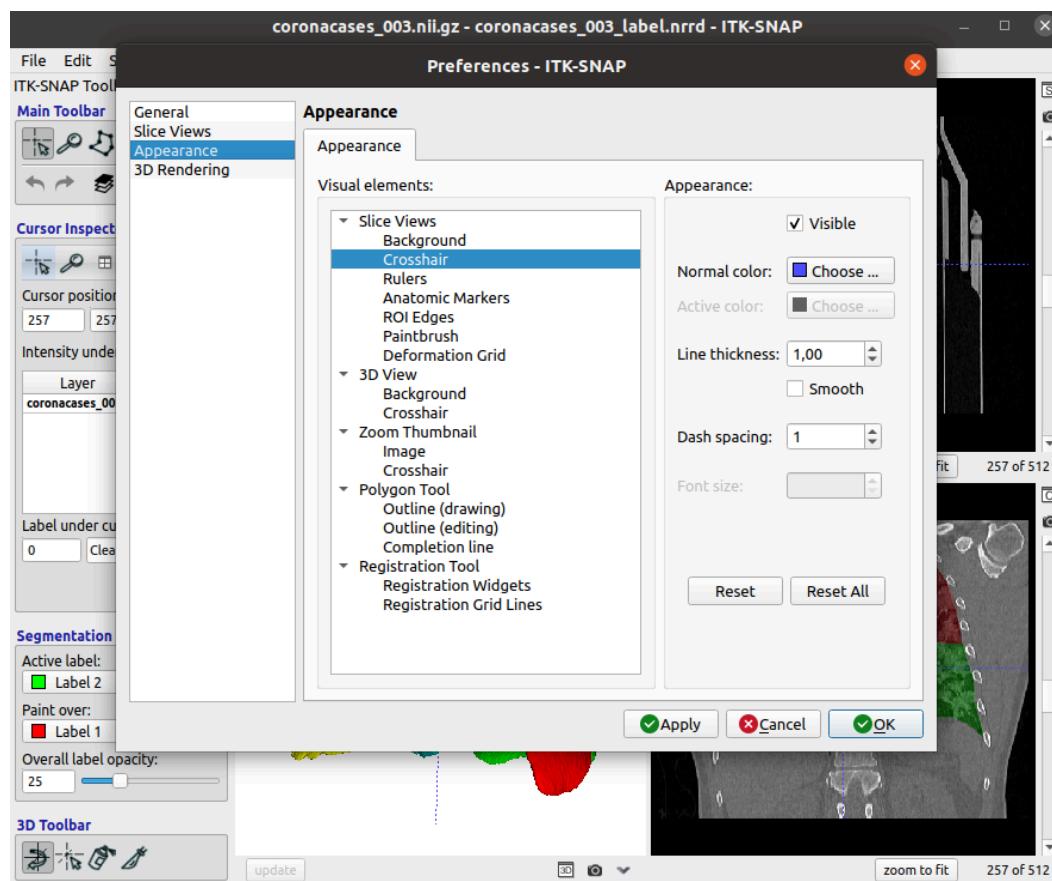
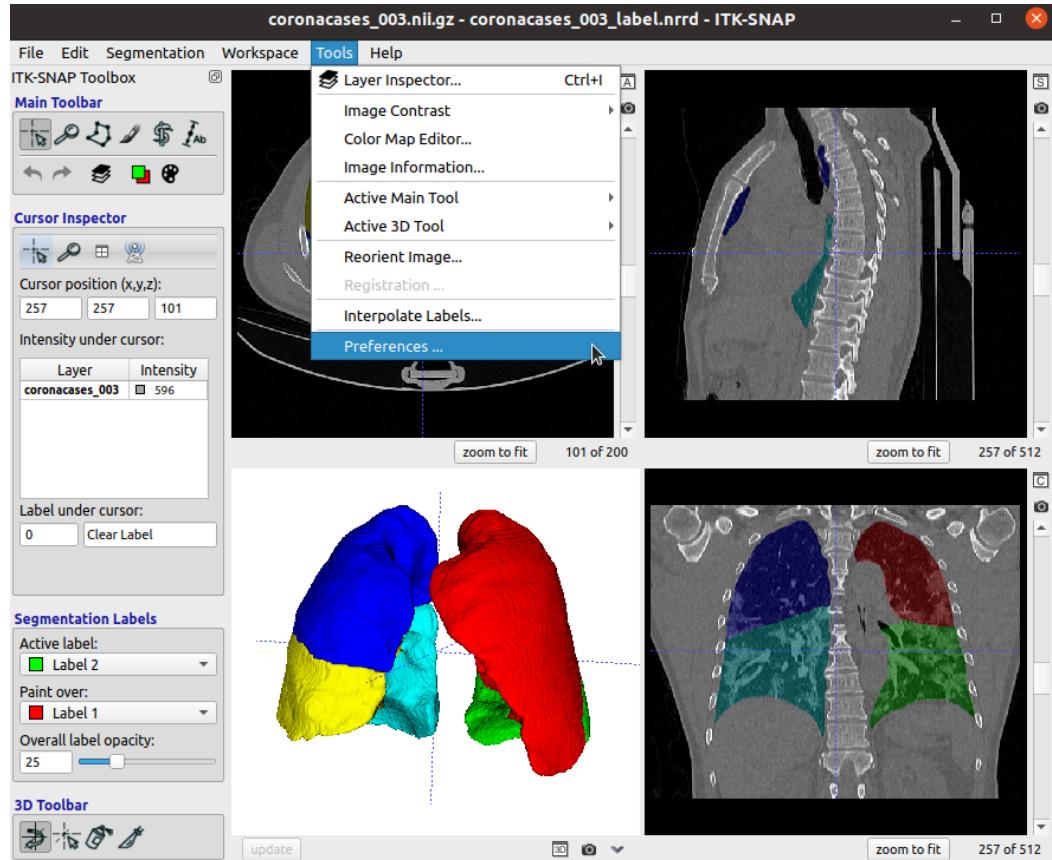


Go back or forward

- Rewind Undo (Ctrl+Z): undo a step
- Next (Ctrl+Shift+Z): retrace a step



Basic settings



Drag image

- Press the mouse wheel and drag